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1. A13-097: Nanofluidic Sequencing of Polypeptides

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Design, fabrication, and demonstration of an electrophoretic capillary nanofluidic integrated sensor platform effective for sequencing polypeptides. The goal is to rapidly determine the amino acid sequence of a large polypeptide in a non-destructive manner. DESCRIPTION: Standard methods of proteomics, such as mass spectrometry and SDS-PAGE, involve an extensive amount of sample prep ...

SBIR Department of DefenseArmy

2. A13-098: Thermal Infrared Detection of Aerosolized Bacterial Spores

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop a software package designed for detecting and tracking biological aerosols using a thermal infrared camera. DESCRIPTION: In outdoor environments, biological aerosols exhibit a Mie scattering component within the infrared signature of the aerosol. The Mie scattering component is primarily due to the reflectance of the cold sky by the aerosol particles. The Mie scatter componen ...

SBIR Department of DefenseArmy

3. A13-099: Secondary Processing Development and Prototyping of Cast Single-Piece Vehicle

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and prototype highly scalable processes to fabricate single-piece underbody structures to achieve a combination of high strength and high toughness. DESCRIPTION: The Army is interested in the production of large single-piece underbody structures for combat vehicles. The structure must possess an outstanding combination of strength and toughness for it to survive battlefiel ...

SBIR Department of DefenseArmy

4. A13-070: In-Plane Conductivity Improvement to Fiber Reinforced Composite Materials

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a lightweight solution to improve the in-plane thermal conductivity of carbon fiber reinforced polymer composite materials that is either directly integrated into the material, co-cured within the fabrication process of a composite structure, or secondarily bonded to the structure without significantly affecting the structural capabilities of the material. DESCRIPTION: Fibe ...

SBIR Army

5. A13-071: Low Cost Finishing of Optical Ceramic Domes with Embedded Grids

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: The goal of this topic is to develop methods or techniques that will reduce the fabrication costs of optical ceramic domes containing embedded grids. DESCRIPTION: The Army has been developing large hemispherical domes for tri-mode seeker applications in current and future missile systems. The domes are made from hard optical ceramic materials such as aluminum oxynitride (ALON) and s ...

SBIR Army

6. A13-072: Non-Fouling Water Reuse Technologies

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a non-fouling water reuse technology to achieve field-potable water quality from gray water influent. DESCRIPTION: Supply of water for potable and non-potable uses at contingency operating bases (COBs) represents a significant logistical and economic burden for the Army. To help alleviate this burden, on-site water treatment with reverse osmosis (RO) membrane technology has ...

SBIR Army

7. A13-073: Developing Methods for Positional Accuracy of High Resolution Satellites

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Increase the pointing accuracy of the Kestrel Eye satellite to 10 meters or less. DESCRIPTION: The United States has very highly capable imaging satellites built by both Government and commercial organizations. However these satellites are expensive, limited in number and there is competition for their use. The Army desires to increase the persistency of imagery coverage, have task ...

SBIR Army

8. A13-074: Data Exfiltration of Unattended Ground Sensor Data using a 3U Cube Satellite

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Increase the data rate and signal strength capabilities for exfiltrating signals from Unattended Ground Sensors (UGS) using a 3 Unit (3U = 10x10x34 centimeter) cube satellite. DESCRIPTION: The US Army is increasingly relying on Unattended Ground Sensors (UGS) in current military operations. For example, the number one cause of soldier deaths and injuries in current military operatio ...

SBIR Army

9. A13-075: Geospatially-networked Sensors for Heavy Metal Detection in Surface Water and Soil

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Development of small, portable geospatially-enabled mesh-networked sensors for dynamic detection of heavy metals in water and soil. The objective is to develop sensors that are capable of being integrated into existing Engineering Research and Development Center (ERDC) sensor network specifications in order to detect, monitor and report concentrations of heavy metals in surface waters ...

SBIR Army

10. A13-076: Flexible, Stretchable, and Hyperelastic Photovoltaic Generating Textile

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a robust, flexible, efficient, photovoltaic textile ("solar textile") suitable for incorporation in both infrastructure and weapon systems. DESCRIPTION: Energy solutions for forward basing and associated war fighting operations are moving toward hybrid and integrated energy/power systems. Through the increased use of indigenous energy sources dependence on traditional so ...

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